INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

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SOURCE EVALUATIONS ARE DEFINITIVE. APPRAISAL OF CONTENT IS TENTATIVE.	

Attached are the following materials on the Georgi Dimitrov Shipyards, Varma:

- a. a 14 page descriptive legend of the Georgi Dimitrov Zaveds numbers one, two, and three;
- b. a three page discription of the Reserve Labor School for shippard technicians at Zavod number one;
- c. a detailed sketch of Zavod number one;
- d. a sketch of the lathe machine shop at Zavod number one;
- e. a sketch showing a front view of the major buildings of Zavod number one;
- f. a sketch showing the spare rudder mechanism on a 1000 ton barge;
- g. a sketch showing the deck of a 1000 ton barge;
- h. a sketch showing a top, side, and cross section view of the 1000 ton barge with a detailed view of the rudder mechanism;
- i. a sketch showing the sluice at Zavod number one; and
- j. a sketch of a tower crane.



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ATTACHMENT

VARNA SHIPYARDS

25X1

The Varna area includes three shippards known as "G. Dimitrov No. 1, No. 2, and No. 3 Shippards (industry) for Construction and Repair of Ships. No. 1 was formerly known as "Georgi Dimitrov" located to the west of the main basin of Varna Harbor.

- No. 2 is the former "Korolovag" located at the point where Devnya Canal joins Devnya Lake.
- No. 3 is the former "Neptoyn" adjacent to the electric mobile bridge spanning Devnya Canal.
- ZAVOD The foregoing shippards will hereafter for ease of reference be quoted as Zabond No. 1, No. 2, and No. 3, the same as labelled by the Bulgarians.
 - A. Shipyard Zabend No. 1 (Attachment #12 Drawing) refers to Zabend No. 1
 Shipyard and adjacent area. Hereunder is definition of symbols indicated in aforementioned drawing.

#38 Reserve Laborer's School - technician 25X1 section (OYTSILISTE ZA TROYVONTI REZERVI No. 38, located adjacent to the shipyard)

Zabond No 1. Until 1954, the latter, was titled as "Kormbso" G.
Dimitrov No. 1, i.e., BULGARIAN-SOVIET SHIPBUILDING ORGANIZATION "G. DIMITROV" No. 1.
It read as follows in the Bulgarian Language: KOPAGOCTPONTENHO
GZATTAPOCZBETCKO OSWECTBO "F DHMHTPOB" No. 1

In 1954, the foregoing legend was replaced by the following: "korambostroitelm!

/ Korambor & Month / Zabond Georgi Ntimitrof No.!" i.e., Shipperds

(Industry) for construction and repair of boats "Georgi Dimitrov" No. 1.

The legend in Bulgarian Language reads as follows: KoPAGOCTAONTEAHN

H KOPAGOPEMONTHY 3 ABOAH "G. DHMHTPOB" No. 1

25X1

When the Russians entered Bulgaria, the shippards in question were seized by the Russians as constituting spoils taken in war. Following completion of construction of the 1000 ton barges for the Russians by the afore-mentioned shippards (which construction cost was considered to have covered value of shippards stock in Russian possession) complete ownership of shippard, was then transferred to Bulgarian State.

ORGANIZATION OF SHIPYARDS ZABONE NO. 1 AND ADJACENT AREA

Dimensions of structures (width, length) are quoted in drawing.

1. Anchorage point of Russian freighters where they are loaded with Bulgarian uranium. Length of pier here (built of cube stones) is $2\frac{1}{2}$ times longer than the Bulgarian ship "Chipka". There are no derricks on the pier. The latter is not girded but instead has 3 or 4 iron stakes driven into the river bottom.

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12. In late 1954, this location was used as anchorage point by the 4 LST, of which the three were usually moored astern and the fourth laterally. 1b. Pier stairs. It is in bounds only to Officers who used them to board the
2. One-story structure used as uranium storehouse.
3. Rail track switches facilitating uranium storehouse.
large quantities of coal. This was also used for ship fueling. Incidentally Source saw "Parvi Mai" 25X
5. Railroad pier built of cement, utilized as military railroad station (Voena Pamba).
6. One-story wooden structure occupied as billeting quarters by army labor unit composed of 50 to 60 men who are rather detailed in unloading uranium.
7. One-story structure built of baked adobe bricks, (dimensions 60×15 meters) used as cow stable.
8. One-story baked adobe brick structure (dimensions 25 x 10 meters). Sign reads as: "TECHNITSESKA PRISTANISNA ROMBOTLNITSA" i.e., Harbor Technical Workshop. It is equipped with one lathe machine, welding apparatus. Approximately staffed by five or six technicians.
9. One-story dwelling house.
10. Railroad line not in use. Was utilized for transportation of material from boat to Zabond No. 1. (Remarks: Shipyard Zabond No. 1 is equipped with own railroad line network. It has - for local use in shipyard - small steam engine and steam derrick running on rails.)
11. Point where German navy ship "Francfourti" wreck was hoisted.
It was a large navy ship held to the water surface by two floaters. No deck installations or accessories were dismantled. Three hydraulic boilers removed from the foregoing wreckage were hauled to point lla. The interior surface of boilers were cleaned by machine apparatus operated by compressed air containing sand, which ejected by force removes rust from metal surfaces. The aforementioned apparatus is known as "RES KON SHTOUEN ARARAT". The same apparatus is utilized to clean the outside surface of the boilers. Subsequently they were painted with minium. The three aforementioned boilers were located at point lla The foregoing boilers were hoisted from "FRANKFOURTI" by floating crane and hauled to point lla by railroad flat car.
12. Anchorage point used by tugboats Parvi Mai and Burghas. Parvi Mai is utilized by the salvage agency. It is also detailed as a tug boat. It is an iron, steam (coal fuel) propelled craft, equipped with diving apparatus for divers. It is

25X1

primarily used as a salvage boat. It can simultaneously facilitate five or six

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American American and American	ATTACHMENT		25X1
divers. Approximate length, detailed to tow out of the h their delivery to Russia. E fueled) tug boat, approximat four. It is ordinarily engage	arbor 1000 ton barg URCAAS is a prewar ely six to seven me	ges on experimental runs antiquated iron one engeters length, manned by	prior to ine (coal
13. Anchorage point for two holds.	two barges not in	use, built of cement, e	
it has 3/4ths of the located on the aforementione	length compared to	ouilt of stone blocks. No. 1 Pier. Two or thre	25X1 ee (?) are 25X1
15. In April or May 19 capacity) was moored at poin operated without self propel	t #12 (anchorage po	ng Derrick of 100 ton he pint for Parvi Mai). It	oisting is electric 25X1
Rolling pins are built of cir sliding of conveyor (i.e., m foundation (to avoid burrowin of the stake is properly inc. supporting it. passenger ships: "KALIAKRA" overhaul repairs on minor cr of plates, end axles etc). To owing to its slantwise positic cable wire is rendered slack 18. Room where electric indicates pulleys applying with 19. Electric derrick, it runs on rail tracks, hoist model placate indicating that No. 20. Definition of symbol a - b) Section c) Operator d) Counter	e, similar to our mercular tree trunks akeshift wooden roling in sand) support lined, to wedge into and "EMONA" and the aft are made on the Likewise, cleaning ion, the craft slid by the laborer. The winch is installed ire cable from the capacity being the is an antiquated in its indicated in No. a-b are the rotation of the capacity being capacity being the cable from the capacity being th	ler). Pipe line stakes the craft on the flanks to the craft's side, then e freighter "KOZLONTOYI. foregoing grate (i.e., of the craft's keel is n es very slowly to the se d to service local grate winch to the grate. RAN) (See No. 13 Drawin three tons. ed type facilitating shi 13 drawing are quoted h ng parts of the derrick	to facilitate with wide Top part reby firmly 25X1 General replacement made here. a after the 25X1 ng) derricks pyard sluice
f) Derrick' g) Four whe h) Electric i) Electric	s boom six or sever sels on each side cable cables winder. O	ection of derrick rotate n meters length perates automatically, s rendered either slack	i.e., when the

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•	CFORFT CONET Page 4 25X1	
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	j) Heavy baked adobe bricks to add further weight to derricks foundation.	
DEFICIENCIES	OF DERRICKS:	
Section Therefore se	a-b of derrick is relatively small compared to derrick's boom (f). ction a-b is dangerously inclined when heavy objects are hoisted.	
20, 25	- Two drydock sluices of Zabond No. 1 Shipyards	25 X 1
	Construction of Each Sluice - Floor of sluice, built of cement is	25 X 1
	the inside walls of the sluice are of cement, strengthened with rods driven into the ground by steam hammer. Lengthened with rods driven into the ground by steam hammer. Lengthened sluice is approximately 60 to 70 meters and 10 to 12 meters wide. Floor level at the forepart of the sluice — where the flood gate is located — is approximately six to seven meters above the ground. At the forepart of the sluice is flooded, the top level of the sluice is approximately three meters above the surface of the water running in sluice. The far end of the sluice levels off to the ground surface the shippard premises, whereby it is possible for vehicles to enter sluice. At the forepart of the sluice, there are stone stairs on be sides leading down to the floor of the sluice. They are	• fter is n the of the
В•	Shipbuilding Activities in Shipyard's Sluices.	
	was under construction in each sluice. Three or four more barges, already launched, were in the final phase of completion. Two other more barges were under construction at the lateral grate (indicated	he in 25X1 n barge 25X1
	#31 drawing.). each technician foreman was equi	.pp ed
	with relative blueprint when engaged in work on aforementioned barg Title of print reads as follows: HILIANDA TONNA BARTZA (i.e., 1000 Ton Barge.	
C•	Period of time Required for Construction of Barges - Three or four months were required, as of the day keel was laid, to the day it wa launched, to construct a 1000 ton barge. One daily shift was on th job from 0800 to 1700 hours with one hour break for lunch. In the the job was not finished within the specified period, the same labo worked overtime for one or two hours. was employed in the shipyards sluice.	e event rers
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25X1

25X1

n	Rough Outline of Methods in Barge Construction - Three rows of stumps
D.	(one in the center and two more flanking it) are placed on the floor
	bottom of the sluice to support the newly laid barge keel. Three or
	four groups, each composed of five or fix persons, are engaged in
	laying the keel and assembling the different metal sections welded by
	one welder in each group. Each sluice is equipped with mobile trans-
	former to change the alternating current to continuous. Incidentally, Varna is supplied with alternating current.
	America en artificação um antificação de antificaçã
	time the barges were under construction - five or six mobile transformers
	of the above type in each sluice. As mentioned above, only work on the
	keel and welding of parts are conducted in the sluice. The metal sections
	or parts prior to being welded are prepared at the respective sections in
	the shippard which are equipped with the proper machinery. Many of the
	pieces composing a section are welded in the shipyard workshops (e.g.
	fore peak, after peak) which are subsequently hauled to the sluice to
	be installed in the barge. Transportation of the different parts from
	the shippard workshops to the sluice, is conducted by tractor towed
	special four wheel (compact tire) vehicle. Following completion of the
	barge, it is launched by sliding it over the wooden grate in the follow-
	ing manner. Rolling pins greased with pulp soap are placed under the
	barge. Oblong beams spliced with iron rods are then placed on top of the
	rolling pins. Subsequently the barge is stripped off its supporters
	(i.e., stumps) beginning with the central row followed by the two other
	rows flanking it. The craft then rests on the grate ready to be
	launched. Two cable wires fastened to the far end of the sluice are
	tied to the barge. By opening the floodgate, the forepart of the sluice
	is flooded thereby snaping the cables to allow the craft to glide slowly
	to the sea. craft being hoisted
	in the sluice by utilizing #18 winch with 25X1
	pulleys.

E. Definition of #14 Drawing - Definition of symbols indicated in #14 Drawing pertaining to view of sluice-way:

a-b Length of 1000 ton barge occupied space a-e. This is to compare with total length of sluice.

c&d Two staircases on sides of sluice.

e Floodgate of the sluice.

f Sea

6. Description of 1000 Ton Barge - Herewith is definition of numbers indicated in #15 Drawing.

Letters on the	ne barge sides indi	cates that they are
oats: SOBETSKO GKO	SOUNTAP STEENO NTO	YNAISKO PARAHOTSTBO.
		to 40 one thousand 25X1
	Soats: SOBETSKO GKO	Letters on the barge sides indi Soats: SOBETSKO GKOSOUNTAP STEENO NTO In Ruse No. 1022, One Thousand Ton Bar 30

ton barges have been built.

Material for their

construction all came from Soviet Union. Dimensions of aforementioned barge approximately 50 meters length, approximately 4 to 5 meters width. Height from keel to main

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	CRET Page 6 25X1 25X1
	o five meters. Hull of barge protruding from the water line is approximeters high. It has one hold. Entrance leading to it from the deck is high.
a) b) c)	forepart dry compartment abaft dry compartment Semblance to engine room. Equipped with electric generator and heating boiler. Generator supplies the power to motivate the pumps, extricating the water from the dry bottom compartments and from the sea water cisterns 25X1
ı	pumps. It is possible that there may be more than two. Generator of Russian make, supplies current for illuminations. 25X1
d)	Two ventiducts, of the engine room where the generator is located. Barge is not equipped with self-propelling power.
e)	Manual crane anchor
f)	Two lief boats
g)	Balanced rudder. Each barge has two evenly balanced rudders operating simultaneously. The interior of the rudder is filled with asphalt.
h)	Aperture, shut off by valve through which liquid asphalt is poured into the interior of the rudder which subsequently solidifies.
i)	Aperture, in rudder through which chain passes, fasten to the (16x10V?) of the barge. Chain is utilized as (?) to steer the rudder beyond designed angle.
j)	Rudder mechanism. Barge is equipped with two, i.e., one for each rudder, fastened by chain to the rudders' wheel. Details of rudder mechanism abaft is indicated in #15 Drawing (c'Plan). Should one of the cables of the rudder snap, there is a spare mechanism of gear wheels to steer the rudder's axles with the rudder wheel.
k)	System of cog wheel compose spare rudder mechanism. This is used, should the cables connecting the steering wheel with the rudder break. Entire spare mechanism is illustrated in #17 Drawing.
1)	Transversed view of the lateral sea water cisterns. The latter are located between the dry compartment, which extends along the entire length of the barge, and the exterior side of the barge. The lengthwise compartment is transversely divided into smaller compartments thereby creating on each side of the barge, five to six sea water cisterns.
m)	Transversal view of the aforementioned lengthwise partition. 25X1
n)	#16 Drawing illustrates hatch ways on deck leading to the dry bottom compartments. Height of the latter is 0.50 meters. the aforementioned 1000 ton barges are the only barge types on the

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	Section	Page 7	
			25 X 1
	Danube constructed with dry be	ottom compartments.	25X1
0)	General Information Re: Cons	truction of 1000 Ton Barge	
	5 m x 2m. Keel plate (level) not framed with conventional to placed as follows: Each beam divided into pieces. Each pieces to the interior side of the hold of the same width as the hull protrude at the above edge of allow the following hull plate the preceding beam. Thus the described pattern. Constructed at Shipyard Zabone job was not supervised by Russ delivery of the above craft,	is 10 mm. The aforementioned type beams but the exterior place is not comprised of one piece ece is 0.50 away from the other ull plate. Though each beam piplate (i.e. 2m) yet it is adjuent hull plate by 0.20 m. The to be welded on the protruding barge is constructed following though 1000 Ton Barged No. 1 in Varna for the Russian sian technicians. Prior only they were inspected by Russian eputy Director and Supervisor of	craft is ates are but is r, welded iece is asted to as is to as part of the above as were 25X1 ans, yet the to the official,
21, 26	Two floodgates of sluice, one	for each.	
22, 23	conveyed by three wires, lying Three ironrods, resembling the the crane wheel touch respect Current is three phase. Each	rating on rail tracks supplied g in ditch parallel to the rail ose of trolley car, protruding ively the live wires lying in t crane has eight wheels on each at the aforementioned shippard ch crane being 40 tons.	tracks. underneath he ditch. n side. They
214	1000 or 10,000 kilos. Nonether power of the aforementioned or one day, the crane hoisted sin weighing three or four tons, of German make and another heavy move is strengthened with iron such girders being placed for girders: Length - 10 meters, The girders are driven into the cement covered. The rail tracewer the aforementioned girder	rane is 40 tons. While demonst multaneously three to four propone ten ton engine of interior item. Floor ground on which to rod cement girders. Crane. Dimensions of the width - 0.25 meters, height - ne ground by shipyard steam ham acks on which the crane moves, rs.	crating 25X1 crating 25X1 cellers, each combustion of the cranes aforementioned 0.25 meters.
ट्य	Distance between the two sluid	es is six to seven meters.	

27 Pier is six to seven meters high

Pier approximately 60 to 70 meters long, 20 meters wide, built of cube stones used for docking 1000 ton barges following their completion.

Frequently, the newly constructed barges are moored side by side

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	Page 8 25X1
	25X1
	two such barges on one side of the pier and three more on the other side.
29	Wooden structure with triangle roof used as painter's workshop.
29a	Cement barge built by NEPTUNE Shipyard (i.e., Zabond No. 3) was docked at this point in Spring 1954 for installation of metal parts.
3 0	Pier, 20 meters long built of cubestones. Cement barge (quoted in 29a) was moored here following its completion.
31	Ground area on which no technical improvement has been made. This is used for shipbuilding. only 1000 ton barges were constructed here, two at a time, lying one after the other on three rows of stumps, i.e., one in the center flanked on each side by one row. Owing to lack of proper grates no repairs are made here. Permanent grate is not available here, launching of barges being obtained from lateral position. Three or four wooden grates (of the type quoted by 17) are utilized for barge launching. Shore is sandy at this point known as STAPEL PESA-TSITEN (i.e., sandy shore for ship building).
32	Two electric cranes supplied with current the same as quoted by 19. They are mobile operating on rail tracks, imbedded in cement base. Approximate distance between the two cranes is 12 meters, interceding area being used for ship building. Thereby the aforementioned cranes tower over the newly constructed craft. 25X1
	though they are the same as the other, yet the hoisting capacity of the last two are 12 and 13 ton respectively. The above two cranes create an archway and are labelled as "POLTALEN KRAN" (i.e., crane with arch). They run on eight wheels, four on each side. Length of rail tracks on which they run is approximately 120 meters. Distance from rail head to shore is approximately 20 meters.
33	Electric cutter installed in wooden structure. It cleaves 16 m.m. plates.
	services #32 Shipyard. The same cutter is equipped at one end with 25X mechanical punch (i.e., automatic drill).
34	Wooden structure approximately 80 meters long, five meters wide Two sections quartered in the aforementioned structure are known as #34 and 34b. No. 34a is a tool 25X1 house where receipted tools are supplied to personnel of #31 Shipyard.
~ P	No. 34b houses shipyard's tinsmith workshop.
35	Net work of Zabond No. 1. Cement pathways approximately three meters wide (they are marked with red lines).
36	Width of exterior fence located approximately 40 meters from the sea.
37	Area where plates and miscellaneous items are cleansed with sand and compressed air.
	25X1

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			25 X 1
38	One-story baked adobe structure use	ed by lathe machine workshop.	
	10 to 12 lathe machines of R	ussian make installed in the afore-	25X1
	mentioned structure, one of which is of the latter lathe machine climbs		25 X 1
	operate it by push of electric but		25X1
	it is used to smooth surface of shi located here.	ips exles. Electric drills are also	

- Two-story structure utilized as main storehouse by Zabond No. 1 where plates, rivets, screws, cables, all kinds of electric supplies, electrodes for welding etc., are stored.
- One-story baked adobe structure where approximately ten persons are employed. Three iron coke furnaces are installed here. Compressed air from the air compressor unit is puffed into the aforementioned furnaces. Furthermore, two anvils and four or five mechanical hammers operated by compressed air are located in the same structure. All (including the largest) hammers, are of Russian origin

 There is also electric saw machine equipped with rotating iron blade that can cleave iron rods as much as 20 cm thick.
- One-story tile roof structure built of baked adobe bricks, quartering the sanitation agency of the shipyards, staffed by one doctor, a dentist and two nurses. The same agency includes a first aid dispensary. The ship-yards official exercising supervision over security regulations pertaining to prevention of accidents is housed here too. His office is titled as OKRANA NATROUNTA (Work Security).
- 42. This is the largest structure of Shipyard Zabond No. 1. It is titled under Russian name J.K. 1 (read us ZE-KA No. 1 - i.e., First Workshop). Bulgarians call it Boiler Workshop though it is not so. It is cement built, over ten meters high. The aforementioned workshop includes a mezzanine floor (marked with red pencil) used as draft room for large scale designing of ship lines. It is partioned off to include the workshop tool house. Point a-b indicates plate supported to the wall by three rods utilized as work bench. Dimensions of plate: 20 mm thick, .06 m wide and 0.50 m above the ground floor of the workshop. Assembly work on craft metal parts is conducted on the aforementioned work bench. Mechanical equipment of ZE-KA No. 1 is as follows: Two small (old model) electric cutters are equipped at one end with mechanical punch. Two electric hone machines. Elevated iron rail tracks reaching nearly 25X1 to the ceiling of ZE-KA No. 1 are supported by pillars. Three elevated electric cranes are operated on the elevated rail tracks. Two of them are located near the center of the workshop reaching above the work bench (as indicated by a-b). The third crane is over at the other half of the section of ZE-KA. The two cranes located above a-b plate have hoisting power capacity 12 and 3 tons. The third crane has likewise 3 ton hoisting capacity. Operators of the aforementioned cranes climb to mezzanine floor located above the pillars supporting the elevated rail tracks on which the cranes run. There is a pathway from which the operators climb into the crane's cabins.

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25X1

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25X1

Press motivated by electric generator. The latter supplies power to air compressor unit whereby press functions with compressed air. The aforementioned press is new, of 250 ton capacity

25X1 25X1 the foregoing press was installed in 1954 inasmuch as preparations to install it at the aforementioned site were made in 1953. There is a third electric cutter located at the center of the workshop in addition to the two foregoing. The third electric cutter in question is motivated by electric generator and can cleave plates as thick as 18 mm. Mechanical punch is attached to its end. Special cutter (guillotine type) is available for cleaving of elongated 25X1 (20 to 24mm thick) plates to 4 meters size.

Furthermore furnace is available for incandescence of plates being processed in the finishing phase whereby they are subsequently placed 25X1 in molds. Wooden hammers give the desired length. fuel used by the aforementioned furnaces, whose approximate dimensions are 10 meters long and 4 meters wide. Leastwise they are not coke or coal fueled. ZE-KA No. 1 roof is latticed with apertures for illumination.

- <u>μ</u>3 Wooden structure: Antiquated electric cutter is located here, (of the guillotine type). cleaving plates to size of 4 meters long, 20-24 mm thick. Specialized operator manage latter guillotine type cutters.
- 44 Tile roof structure built of baked adobe bricks. Approximately 20 electric lathing machines (2 to 5 meters long each) are located in the aforementioned structure. Four or five are of Russian make (KRASNI PROLETARII model). Though new, model is antiquated. Four or five are of Czechslove. 25X1 kian make

Special electric machine of Czechslovakian make is available here too for surface smoothing of minor items. Smoothing procedure is effected by cylinder wheel of same design as used by hone machines. Oblong lathe machine approximately six meters long of German make, was observed also. It operates with belt band rotated by accessory generator. The foregoing lathe machine is for smoothing of ship axles. There is also special electric lathe machines of Czechoslovakian make in addition to the aforementioned. It is utilized in smooth surfacing processing of craft pillars (?). Gear wheels are prepared by special electric machine of Russian make equipped with two blades. Five or six electric lathe machines of German make located here are used also for surface smoothing of petty items. There are known in the Bulgarian language as "SEPING MASINA" two electric (?) of Czechoslovakian origin, are used to adjust miscellaneous drill and carving bits (RAIMBLA). Electric elevated crane. run on rail tracks, located near the ceiling, is operated by remote control. (i.e., operator does not climb on to the crane). Tool house (a) is located in the aforementioned lathe machine shop.

45 Carpenter's workshop. One-story baked adobe brick structure with mezzanine floor where life boats are built. The foregoing shop is equipped with two or three electric band saws and three or four electric planes and vacuum apparatus for suction, of sawdust which is ejected out of the work-

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	shop to	a waiting van.	•			25 X 1		
46	the kit	ry baked adobe chen and dining entertainment	g parlor. The	re. The ground above floor is rds personnel.	floor is occup a meeting room	pied by utilized		
47	stored. painted prevent to 50%	Entrance to t with white subsabotage other	his building : ostance bar in: wise volume we rident occur.	re where ϕ air is strictly for side view. Strook of shippard Net work districted.	oidden. Window ict measures ar would be minim	panes e to ilzed		
48		ry building hou ipyard deputy d		administration.				
49	Saw Mil is used	l: One-story t for cutting of	tree trunks a	cture built of a	paked adobe bri ls.	cks. It 25X1		
50,51								
52	as smell (incando origin) Elevated contains	ter. Four or f escent?) bricks piled out in fr d electric cran ing the red hot ation of gearin	ive, and possi ont of the for e operating or steel (in liq	built of bake bly more coke f new ca egoing smelteri rail tracks pi uid form) to po	urnaces built start iron of Rusang establishments on the cause our it in molds	with sian 25X1 nt. ldron		
		ated here.		Desiccat	ors (to dry the	molds)		
53		tric functioned tile roof, wo etc.	•	, used as store	house for coke	and.		
54	floor is of state Represent (MORSKI	s occupied by the agency, which ntative is Bulga	he accounting ordains regul arian but also brary is also	of baked adobe office, cashier ations and prin delegates his located here.	and represents ciples on shipl Russian counter	ative ouilding. opart		
55	Volley h	call terrain for	r shipyard per	sonnel.				
56	OY.T.R.N	IO 38 Technical	Shipyard Scho	ol.				
	a)	consisted of f	four class roo	ions 30 x 20 me ms, one technic on offices, sec	al laboratory,	teacher's		

25X1

25X1

kitchen, dining parlor and store rooms.

- b) Two-story tile roof structure built of baked adobe bricks used as boarding house. Though it is old building, it is well maintained.
- c) One-story structure used as clothing warehouse.
- d) It is consisted of two rooms. The first is the central heating boiler room and the other, the school tool room.
- e) School Entrance
- f) Exterior barb wire school fence.

Remarks: School is located within the premises of Shipyard Zabond No. 1. Organization and function of the foregoing school is quoted in pertinent chapter.

- 57 Shipyard entrance check point.
- 58 Athletic Club for shippard personnel ("LOCOMOTIVE")
- Main entrance to shipyard, guarded by the police (Militsia) is used by shipyard personnel and visitors.
- Lathe machine shop. One tile triangle roof structure built of baked 25X1 adobe bricks. Numerous lathe machines are located here.
- Entrance for the exclusive use of the personnel guarded by a police sentry. Railroad line and public road passing at this point, lead to Shipyard Zabond No. 2 (KARALOVAG).
- One-story structure. Police personnel detailed for the protection of Shipyard Zabond No. 1 are billeted in the aforementioned structure. Source has noted approximately ten men but there are more.
- 63 Railroad line net work within the premises of Shipyard Zabond No. 1.

Two railroad cars. Each carries one steam crane. of three or five ton hoisting capacity Above cranes are mobile operated on the entire railroad line network within the premises of the shipyard.

- Exterior Zabond No. 1 barbwire fence (single strand) 1.5 meters high. It is fasten to wooden stakes. One may enter under it with ease.
- 65b Exterior Zabond No. 1 wooden fence, 2 meters high. Entrance through the foregoing fence is made with ease.
- 65c Outside walls of structure located at the perimeter of the shipyard

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	(23)	nati	ECRET		ge 13	25X1
						25 X 1
	wnich co	nstitute the	border line	to the premise	S.	207(1
66	Tile roof	f shed for 1	umber storage.	•		•
67	Dirt road	d leading fr	om the Naval E	Base to the ci	ty.	
68	Stove pla	ant known as	"METAL".			
69	Oil seed	mill known	in the past "F	RATIL DONEVI"	•	
	wnich are	s tue T arges .	t on the premi	ses of Zabond	th and #45 struct No. 1. No. 19 1 machine shop is	Drowi na
entrance an aforemention premises at equipped with adjacent Shipyard Za Fire squad fire engines allowed other event of (?) 3rd Gentechnicians under joint was Russian does not con at hours from (d approximate approximate approximate the special to YZATR bond No. 1 is detailed as Should er than the air raid meral Informate at the Russian-But approximate pot approximate to the three or the three or the special to the three or the special to the three or the three or the special to the three or the special to the three or the special to the sp	ettloned shippetely 10 senters are armed enforced with picard with picard with picard to check find fire break lumber storalarm. mation Re: shippard. lgarian admittely with tely 1500. 0 hours with four trucks	ward. One sentries patrol to with pistol. The police dogs icture of the chmical Shipyard. They enter in cout they have rage area. Per ANOLO Zabond No. 1 Nor were there instration. On the foregoing one hour breats.	try is permane the shipyard du Sentries patronel e bearer attacherd School, ent en masse with shipyard. It e been detailed resonnel is like ther than the Sabond No.	ently stationed at antly stationed at aring the day. Al colling the shipyard at to it. Student are every other day is not equipped with a groups. Small passes are detailed in a more consistent of the shipyard shipyard Zabond Not personnel is esk with one shift. The same shipyard	t each ll ard is ts of ay s. with oking is the ian 25X1 who 25X1 stimated
So	are the abo	ove shipvard	s currently ca	lled, formerly	y known in the pa	ing. 25X1
mentioned fl waters of DE	.oating dock	c is moored of injacent to the second second to the second	service the af outside the pr he old Varna R orementioned s	orementioned : emises of Zabo Zailroad Statio	rough i destroyed, Float shippard. The afond No. 2 in the con. equipped with two ards Zabond No. 1	ing ore 25X1 shallow 25X1
In propelling p two barges w	1953 ower) at po as processe e Russians.	constitution (a) in particular constitution (a) in particular constitution (b) constitution (c) constitution	struction work	on two tanker	thev were be	f 25X1 tioned ing 25X1
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						25X1

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25X1

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25X1

	time. It was fish processing floating plant, docked there to undergo finishing job
	on its metal parts. The aforementioned craft was built at Shipyards Zabond No. 3.
	the latter craft was to be delivered to Russia. Zabond No. 2
	includes a group of five or six large one story structures. Capacity of afore 25X1
	mentioned two tanker barges under construction was 500 tons each. Exterior hull
	_plates were riveted. Approximate//p personnel employed at Zabond No. 2 is estimated
	to be 500.
	25X1
	C SHIPYARD ZABOND NO. 3 - So are the aforementioned shipyard called formerly known
	in the past as "NEPTOUN". This indicated in #15 Drawing (point 20). Zabond No. 3.
	(for construction of cement craft) is located on the Varna-Asparouhovd Road adjacent
	to the electric mobile bridge spanning DEVING CANAL.
	T+ 4=
	point (a), open shed, approximately 15 meters high, where cement was
	wooden grate similar shed was located parallel to the first (i.e. point a). Entrence
	to Zabond No. 3 is indicated at point (b).
	Cement craft launched from the latter shippards are moored 25 years
	to Shipyards Zabond No. 1 and 2, to undergo finishing job on metal parts.
	ZOX
	D PERMANENT DRY DOCK -
_	information pertaining to the arorementioned dry dock (opened in September 1955),
	Floodgate of permanent dry dock located at DEVNO
_	CANAL was built at Shipyards Zabond No. 1. Construction work on aforementioned
	floodgate commenced either in autumn 1953 or early 195h and finished in summer 195h.
	It is approximately 15 meters long and 3 meters wide (at the broadest point). Plates
	are welded. It was built at point 31 indicated in #12 Drawing by SIOPOF (surname
	SIOPA), technician foreman who has built four other smaller floodgates
	Permanent Dock is called by the Bulgarians as
	(SOYH DOCK".)
	OFV4
	25 X 1

25X1

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entioned school is indicated in #12 Drawing (serial #56) description for school bulliaing is quoted in chapter re: ORGANIZATION OF ZABOND NO. 1 SHIPYARDS.

Number of students acceptable at the aforementioned school depends on personnel 25X1 requirements of shipyards. The aforementioned school includes the following three sections (specifications):

- a. Fitters or blacksmiths specialized in ship construction and repairs. (SLOSERI ZASTROES IREMONT NA KOREMBI)
- b. Fitters and blacksmiths specialized in hydraulic and steam pipe installation performed on ships either in construction or repair storage (plumbers).
- c. Electric-oxygen welders.

Attendance is two years. In the first year (as of September until July) trainees are taught theoretical principles being subject every other day to practical training at Zabond No. 1 Shipyards. The same program is adhered to in the first quarter (i.e., as of September and December) of the second year of attendance. As of January until July (2nd year) trainees are allocated in Varna or Ruse Shipyards for apprentice—ship course.

following trainees.

In 1953-54, Class accepted the

A Section 70 trainees

B Section 50 trainees

C Section 30 trainees

On September 1, 1954, following trainees entered in respective sections:

A Section 60 trainees

B Section 35 trainees

C Section either 23 or 25 trainees

Data provided by the Shipyard pertaining to personnel requirements, determines the number of trainees to be accepted at the foregoing school. Sixty-six completed the prescribed course at A Section in 1953.

Qualifications: The following prerequisites are submitted by the prospective trainees applying to the foregoing school.

a. High School Diploma

b. Background History (in duplicate)

c. Age: Not over 17

d. Testimonial letter furnished by Municipal or Community
Board of the district applicant comes from. This letter
is forwarded through competent channels to the aforementioned school.

25X1

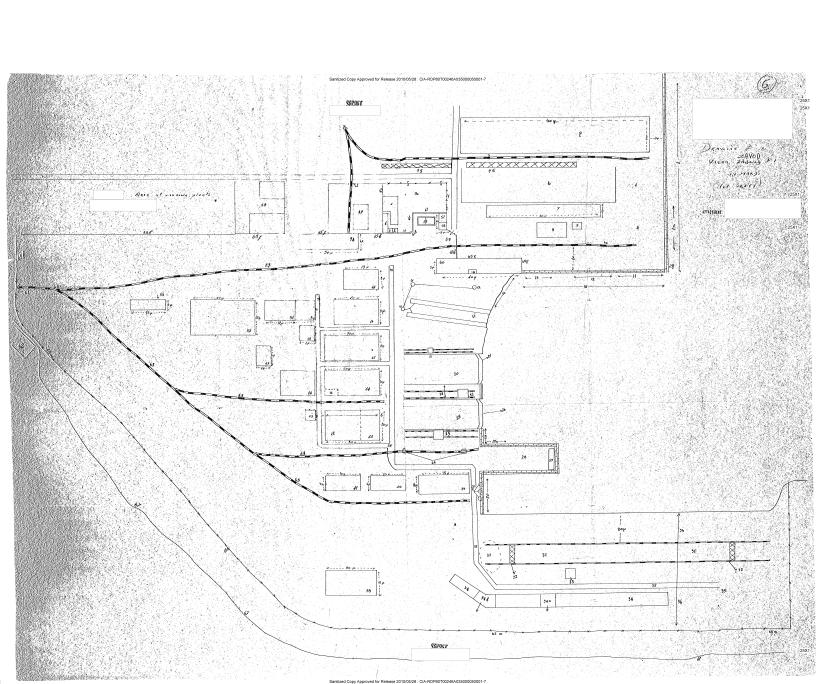
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Sanitized Copy Approved for Release 2010/05/28: CIA-RDP80T00246A035000050001-7 SFCRFT Page 2 25X1 ATTACHMENT 25X1 School provides clothing items, food and board. 25X1 Nikola KOVATSEF was School Director in 1953. In Autumn 195h the foregoing director was replaced by Nikola RAMBATZTEF rollowing were training instructors of 'A! Section (fitters). Nikola DIMITROV, former reserve naval officer Ivan Markof FILTPOF 25X1 A. KOSAMBOF was teacher at 'C' Section (welders). A. MANDEF taught in all three sections of the aforementioned school. P.O.A. DENISKOF, taught in 'B' Section (hydraulics). 25X1 Curriculum: Special Technology and Plans. taught by TSERNOFSKT Mathematics: Professor RANDEVA Physics: Professor ILIEV Ship Designing: Engineer-Shipwright instructors: Zaltko ZLATEV, GANTSEF. Both were employed as dräftsmen at Zabond No. 1 Russian Language: Taught thrice weekly 25X1 Political Guidance: GOURGIEVA (female) Physical Training: Professor EVGENI KORN AZOF, Material Duration: Professor DOMBREF Bulgarian Lauguage: & Literature: Professor Pendo PENIEF. The foregoing curriculum was prescribed at 'A' Section (fitters) barring ship designing course being taught in 'B' Section. Engineer-Shipwright TSEMOFSKI was the school key instructor in technical training. Party: Ivan Markof FILIPOF, was D.N.S.M. Faculty Secretary and Faculty Party Organization Secretary. 25X1 School Quarters: School building was formerly textile mill. the aforementioned school was closed some time ago by Sanitation Center owing to unsanitary conditions but reopened upon failure to locate better building. The building is flea infested. It is lacking in space as result of which half of the trainees are but billeted in the school and the other half in another building, located outside

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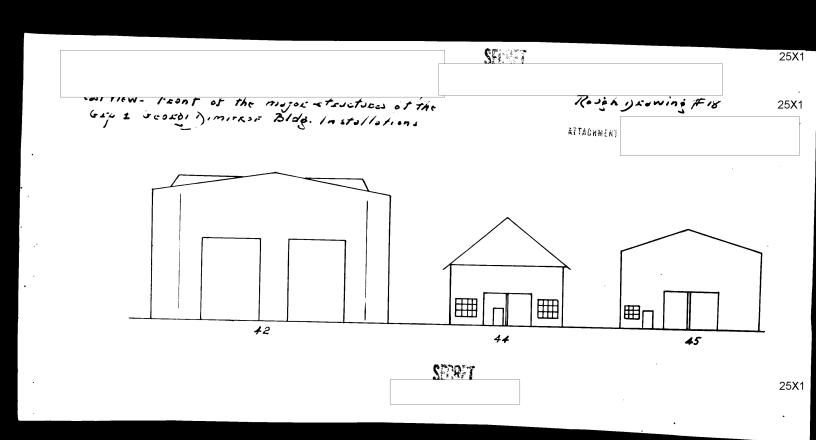
Sanitized Copy Approved for Release 2010/05/28: CIA-RDP80T00246A035000050001-7 SFORFT SCORE 25X1 Page 3 ATTACHMENT the school premises at VELIKO TER NOVA St., (possibly #18) adjacent to the railros 25X1 station. The above story is used as a school dormitory. However, the same story is used as billeting quarters by Zabond No. 1 Shipyard laborers. 1953 Class was billeted in the latter building. The ground floor of the same building was utilized as storehouse. Daily School Program: Daily lessons averaged six to eight hours. Daily Thereotical Lessons Program: 0700-0715 hours - Reveille 0715-0730 - Gymnastics 0730-0800 11 - Breakfast - Recess 0800-1230 Ħ - Class lesson (five hours) 1230-1300 11 - Noon Meal 1315-1530 ** - Class lessons 25X1 1530-1700 11 - Recess 1700-1900 25X1 - Home study 1930 - Supper Subsequently, departure of trainees billeted at VELKO TERNOVON St. dormitory. Daily Training Program: Same program as the foregoing during hours 0700-B. 0730. 0730-1230 hours - practical training at Zabond No. 1 Shipyards. trainees of Hydraulics Section are trained at Zabond No. 2 Shipyards (formerly KORALOVAG) inasmuch as hydraulics installations are available at the latter shipyard. 1230-1330 hours - noon meal. 1330-1530 " - home study. Subsequently, departure of those trainees equipped with two-hour leave pass. Ten to fifteen trainees are permitted daily to leave school premises for a period of two hours (i.e., 1700-1900 hours). General Information: Trainees wear black uniform (i.e., closed jacket, trousers and cap with badge). Wrench and hammer are engraved on cap badge in lieu of national emblem. Leather belt is worn with buckle bearing initials: Y.T.R. Likewise shoes worn by trainees are black. 25X1

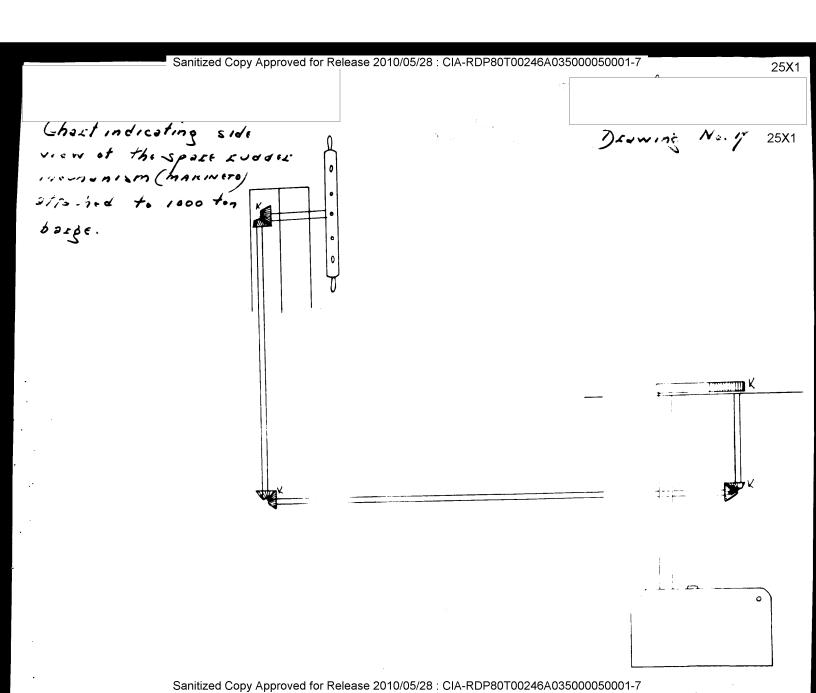
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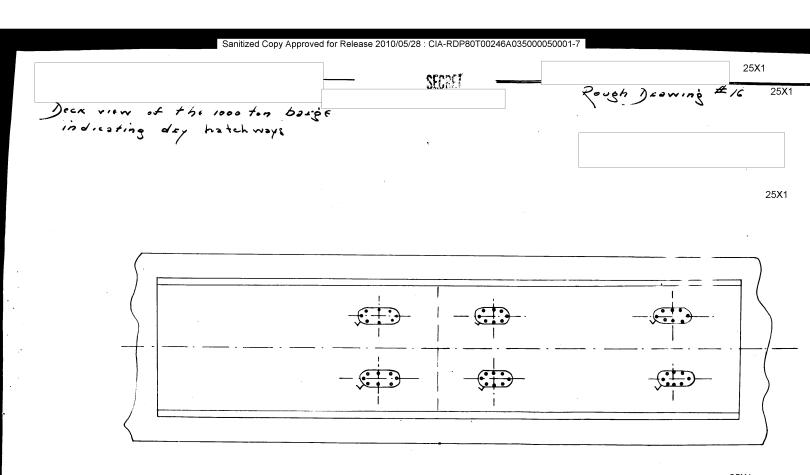


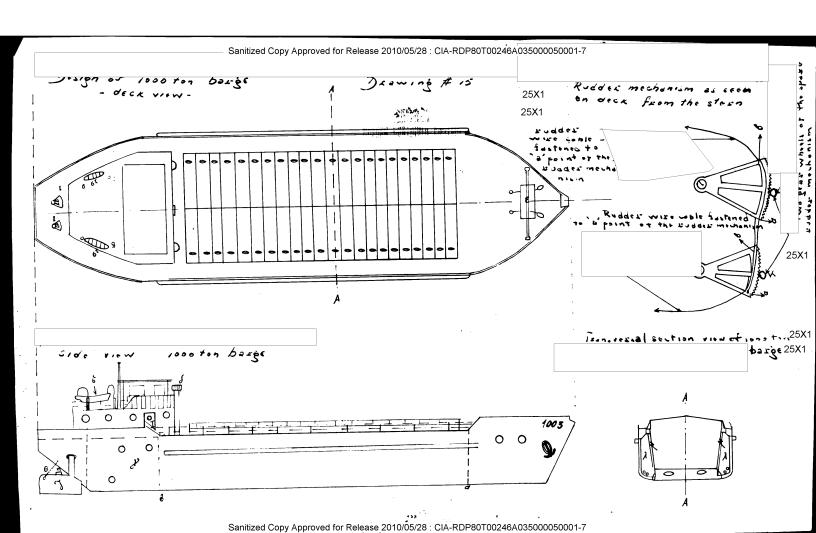
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Front View of Lathe Machine Snow -South View-	j±.o	ATTACHMENT	

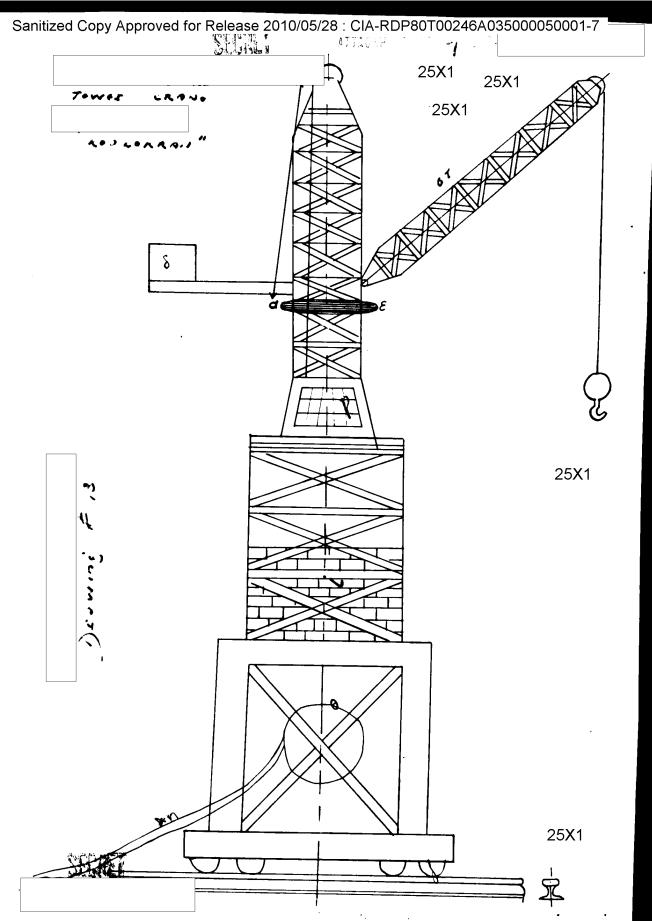
TOWN!











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VION of No. 1 200000 in vacua inciting day dock store 25X1 TOP 25X1 860° 25X1 ε The state of the s 25X1 Sist view indicating dry dock stuice 25X1